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### 1. [S1.02: Microwave Technologies for Remote Sensing](#)

Release Date: 09-17-2012 Open Date: 09-17-2012 Due Date: 11-29-2012 Close Date: 11-29-2012

Lead Center: JPL Participating Center(s): GSFC, LaRC OCT Technology Area: TA08 NASA employs active (radar) and passive (radiometer) microwave sensors for a wide range of remote sensing applications (for example, see: <http://www.nap.edu/catalog/11820.html>). These sensors include low frequency (less than 10 MHz) sounders to G-band (160 GHz) radars for measuring precipitation and clouds, for planeta ...

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### 2. [S1.03: Sensor and Detector Technology for Visible, IR, Far IR and Submillimeter](#)

Release Date: 09-17-2012 Open Date: 09-17-2012 Due Date: 11-29-2012 Close Date: 11-29-2012

Lead Center: JPL Participating Center(s): ARC, GSFC, KSC, LaRC OCT Technology Area: TA08 NASA is seeking new technologies or improvements to existing technologies to meet the detector needs of future missions, as described in the most recent decadal surveys for Earth science (<http://www.nap.edu/catalog/11820.html>), planetary science (<http://www.nap.edu/catalog/10432.html>), and astronomy and astr ...

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### 3. [H6.03: Human-Robotic Systems- Manipulation Subsystem](#)

Release Date: 09-17-2012 Open Date: 09-17-2012 Due Date: 11-29-2012 Close Date: 11-29-2012

Lead Center: JSC Participating Center(s): ARC, JPL OCT Technology Area: TA04 This call for technology development is in direct support of the Human Exploration and Operations Mission Directorate (HEOMD). The purpose of this research is to develop component and subsystem level technologies to support robotic precursor exploration missions. To that end, it is the intent of this Subtopic to capitali ...

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### 4. [H7: Entry, Descent and Landing Technology](#)

Release Date: 09-17-2012 Open Date: 09-17-2012 Due Date: 11-29-2012 Close Date: 11-29-2012

The Thermal Protection System (TPS) protects a spacecraft from the severe heating encountered during hypersonic flight through a planetary atmosphere. In general, there are two classes of TPS - reusable and ablative. Typically, reusable TPS applications are limited to relatively mild entry environments like that of Space Shuttle. No change in the mass or properties of the TPS material results from ...

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**5. [S1.04: Detector Technologies for UV, X-Ray, Gamma-Ray and Cosmic-Ray Instruments](#)**

Release Date: 09-17-2012 Open Date: 09-17-2012 Due Date: 11-29-2012 Close Date: 11-29-2012

Lead Center: GSFC Participating Center(s): JPL, MSFC OCT Technology Area: TA08 This subtopic covers detector requirements for a broad range of wavelengths from UV through to gamma ray for applications in Astrophysics, Earth science, Heliophysics, and Planetary science. Requirements across the board are for greater numbers of readout pixels, lower power, faster readout rates, greater quantum effic ...

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**6. [S1.05: Particles and Field Sensors and Instrument Enabling Technologies](#)**

Release Date: 09-17-2012 Open Date: 09-17-2012 Due Date: 11-29-2012 Close Date: 11-29-2012

Lead Center: GSFC Participating Center(s): ARC, JPL, JSC, MSFC OCT Technology Area: TA08 Advanced sensors for the detection of elementary particles (atoms, molecules and their ions) and electric and magnetic fields in space and associated instrument technologies are often critical for enabling transformational science from the study of the sun's outer corona, to the solar wind, to the trapped r ...

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**7. [H7.01: Ablative Thermal Protection Systems](#)**

Release Date: 09-17-2012 Open Date: 09-17-2012 Due Date: 11-29-2012 Close Date: 11-29-2012

Lead Center: ARC Participating Center(s): GRC, JPL, JSC, LaRC OCT Technology Area: TA14 The technologies described below support the goal of developing higher performance ablative TPS materials for higher performance future Exploration missions. Developments are sought for ablative TPS materials and heat shield systems that exhibit maximum robustness, reliability and survivability while maintaini ...

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**8. [H8: High Efficiency Space Power Systems](#)**

Release Date: 09-17-2012 Open Date: 09-17-2012 Due Date: 11-29-2012 Close Date: 11-29-2012

This topic solicits technology development for high-efficiency power systems to be used for the human exploration of space. Power system needs include: • Batteries for extravehicular activity suits. • Electrical power for in-space propulsion systems. • Electric power generation and energy storage for planetary and lunar surface applications. H8.01 Fuel Cells and Electrolyzers: • Io ...

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## **9. [S1.06: Cryogenic Systems for Sensors and Detectors](#)**

Release Date: 09-17-2012Open Date: 09-17-2012Due Date: 11-29-2012Close Date: 11-29-2012

Lead Center: GSFC Participating Center(s): ARC, JPL, KSC, MSFC OCT Technology Area: TA08 Cryogenic cooling systems often serve as enabling technologies for detectors and sensors flown on scientific instruments as well as advanced telescopes and observatories. As such, technological improvements to cryogenic systems (as well as components) further advance the mission goals of NASA through enabling ...

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## **10. [H8.01: Fuel Cells and Electrolyzers](#)**

Release Date: 09-17-2012Open Date: 09-17-2012Due Date: 11-29-2012Close Date: 11-29-2012

Lead Center: GRC Participating Center(s): JPL, JSC, KSC OCT Technology Area: TA03 Ion-Exchange Membranes for PEM Electrolyzers During high-pressure electrolysis operation, hydrogen permeation through the ion-exchange membrane acts to reduce the current efficiency within the cell. This permeation increases with increasing pressure. Technological approaches are sought that significantly reduce thi ...

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